Biology 1104
Score Key

Page 2

(1) C
(2) B
(3) K
(4) H
(5) G
(6) F
(7) J
(8) A
(9) E
(10) D
(11) L
(12) I

Page 6

(1) (a) connective
(b) muscle
(c) nervous
(d) epithelial
(2) skin
(3) integumentary
(4) Any order. protection . . . regulation . . . storage
(5) ultraviolet
(6) nerves
(7) Fingernails
(8) temperature . . . water
(9) insulate
(10) heat . . . perspiration
(11) epidermis . . . dehydration
(12) Vitamin D
(13) Honour thy father and thy mother, as the LORD thy God hath commanded thee; that thy days may be prolonged
Deuteronomy 5:16

Page 8

(1) dermis
(2) thickest . . . thinnest
(3) epithelial
(4) keratin . . . protein
(5) Granular
(6) Melanocytes
(7) Freckles
(8) pigment
(9) Melanin
(10) oxygen . . . waste
(11) plasma
(12) cells . . . interstitial
(13) I Thessalonians 5:12, 13

Page 10

(1) mitosis
(2) (a) base
(b) spiny
(c) granular
(d) clear
(e) horny
(3) 25 to 30
(4) blister
(5) callus

Page 12

(1) dermis
(2) lymph . . . sweat . . . glands
(3) Any order. papillary . . . reticular
(4) collagen . . . elastin

Page 13

(5) true
(6) temperature
(7) increase
(8) true
(9) papillae
(10) true
(11) Honour thy father and thy mother, as the LORD thy God hath commanded thee; that thy days may be prolonged
Deuteronomy 5:16

Page 15

(1) reticular
(2) collagen . . . follicles . . . nail

(3) Sweat
(4) water
(5) ducts . . . pores
(6) activity . . . environmental . . . stress
(7) Staphylococcus
(8) Sebaceous . . . hair . . . skin

Page 18

(1)	E	(7)	D
(2)	I	(8)	C
(3)	K	(9)	H
(4)	J	(10)	G
(5)	F	(11)	B
(6)	A		

(12) sebum
(13) arrector
(14) insulation . . . sensitivity
(15) plate
(16) bed
(17) matrix
(18) cuticle
(19) collagen . . . fatty
(20) cushions . . . insulation . . . energy

Page 19

(1)	B	(7)	C
(2)	J	(8)	F
(3)	D	(9)	H
(4)	I	(10)	G
(5)	L	(11)	A
(6)	E	(12)	K

(13) protection
(14) temperature
(15) nerve
(16) regulate
(17) fat
(18) mitosis
(19) epidermis
(20) month
(21) blister
(22) dermis

Page 20

(23) Blood vessels
(24) fingerprints
(25) elastin
(26) Sweat . . . sebaceous
(27) shaft
(28) root
(29) matrix
(30) cuticle
(31) cortex
(32) medulla
(33) color
(34) texture
(35) bed
(36) matrix
(37) hypodermis . . . energy
(38) Honour thy father and thy mother, as the LORD thy God hath commanded thee; that thy days may be prolonged
Deuteronomy 5:16

Page 21

(1)	A	(6)	B
(2)	J	(7)	F
(3)	G	(8)	I
(4)	E	(9)	C
(5)	D	(10)	H

(11) Thanks be unto God for his unspeakable gift. II Corinthians 9:15

Page 25

(1) 206
(2) axial
(3) appendicular
(4) girdle
(5) (a) physical support
(b) body shape
(c) movement
(d) internal organs
(e) blood cells
(f) minerals
(g) endocrine processes

(6) height . . . hands
(7) organs
(8) muscles
(9) skull . . . sensory
(10) nerves
(11) sternum . . . thoracic
(12) stem cells
(13) unspecialized . . . bone
(14) second

Page 26

(15) connective . . . calcium . . . constant
(16) minerals
(17) hormone
(18) Thanks be unto God for his unspeakable gift. II Corinthians 9:15
(19) Answer may vary.

Page 28

(1) 300 . . . 206
(2) Any order. short . . . irregular . . . sesamoid
(3) Long . . . mobility
(4) short

(5) B	(11) H
(6) J	(12) K
(7) C	(13) E
(8) F	(14) A
(9) G	(15) I
(10) D	

Page 31

(1) Flat . . . organs . . . muscles
(2) scapulas . . . clavicles
(3) pectoral
(4) sternum . . . thoracic
(5) true . . . sternum
(6) connective
(7) false
(8) floating

Page 32

(9) pelvic
(10) sacrum
(11) cranial
(12) suture
(13) flat
(14) mandible
(15) maxillae . . . irregular
(16) ossicles
(17) hyoid
(18) Vertebrae
(19) cord
(20) cervical
(21) atlas . . . axis
(22) thoracic
(23) lumbar
(24) five
(25) coccyx
(26) sesamoid
(27) patella

Page 35

(1) connective . . . matrix
(2) collagen . . . calcium
(3) Osteocytes
(4) closely . . . strong
(5) Haversian canals
(6) porous . . . shock
(7) periosteum

(8) E	(14) F
(9) A	(15) C
(10) H	(16) I
(11) B	(17) J
(12) D	(18) K
(13) G	(19) L

Page 37

(1) true
(2) elastin
(3) Ossification
(4) 25
(5) articular

(6) true
(7) larynx . . . ribs . . . sternum
(8) (a) sternum
(b) Cranial
(c) sacrum

Page 38

(9) metaphysis
(10) lengthen
(11) osteoblasts . . . osteoclasts
(12) Osteoporosis
(13) Osteoblasts
(14) motionless
(15) Thanks be unto God for his unspeakable gift. II Corinthians 9:15
(16) snout
(17) pinna
(18) umbilical cord . . . uterus
(19) sternum
(20) cartilaginous
(21) liver
(22) chamber
(23) small intestine
(24) rectum
(25) kidneys

Page 39

(1) vertebral . . . sternum
(2) arms . . . pelvic
(3) physical . . . movement . . . blood
(4) 206
(5) Any order. long . . . irregular . . . sesamoid

(6)	B	(11)	I
(7)	C	(12)	A
(8)	E	(13)	F
(9)	H	(14)	J
(10)	D	(15)	G

(16) cranial . . . facial
(17) mandible
(18) Vertebrae
(19) axis . . . cervical

Page 40

(20) thoracic
(21) lumbar
(22) sacrum
(23) coccyx
(24) sesamoid . . . knee
(25) Osteocytes
(26) compact
(27) blood . . . nerves
(28) spongy
(29) periosteum . . . osteoblasts
(30) diaphysis . . . epiphysis
(31) marrow . . . osteoclasts
(32) cartilage
(33) Ossification
(34) articular
(35) lengthen
(36) diameter
(37) Thanks be unto God for his unspeakable gift. II Corinthians 9:15

Page 41

(1)	I	(7)	E
(2)	L	(8)	H
(3)	D	(9)	C
(4)	G	(10)	J
(5)	A	(11)	K
(6)	B	(12)	F

Page 43

(1) joint
(2) direction . . . distance
(3) (a) cartilaginous
(b) fibrous
(c) synovial

Page 44

(4) B
(5) A
(6) D
(7) E
(8) F
(9) C
(10) G
(11) Answer may vary.

Page 46

(1) C
(2) F
(3) D
(4) B
(5) A
(6) E

Page 48

(1) B
(2) H
(3) E
(4) C
(5) D
(6) A
(7) G
(8) F
(9) Honour thy father and thy mother, as the LORD thy God hath commanded thee; that thy days may be prolonged Deuteronomy 5:16

Page 50

(1) Any order. skeletal . . . smooth . . . cardiac
(2) striated
(3) cell . . . myofibrils
(4) myosin
(5) contracts
(6) smooth
(7) organs . . . arteries . . . gall . . . arrector

Page 51

(8) heart
(9) Cardiac
(10) 60 to 100
(11) mitochondria . . . energy
(12) Psalm 100:4
(13) Thanks be unto God for his unspeakable gift. II Corinthians 9:15

Page 54

(1) K
(2) D
(3) G
(4) E
(5) C
(6) B
(7) A
(8) L
(9) F
(10) J
(11) I
(12) H
(13) thoracic cage
(14) larynx
(15) bronchi . . . alveoli
(16) circulatory . . . pericardium
(17) pulmonary . . . atrium
(18) aorta
(19) brain . . . nerves

Page 55

(1) joint
(2) (a) synovial
(b) cartilaginous
(c) fibrous
(3) circumduction
(4) rotation
(5) extension
(6) flexion
(7) gliding
(8) abduction
(9) adduction
(10) ball-and-socket
(11) hinge
(12) sellar
(13) plane
(14) pivot
(15) ellipsoidal

Page 56

(16) friction
(17) plasma
(18) bursa

(19) H	(25) D
(20) E	(26) F
(21) I	(27) B
(22) J	(28) C
(23) A	(29) K
(24) L	(30) G

(31) Honour thy father and thy mother, as the LORD thy God hath commanded thee; that thy days may be prolonged Deuteronomy 5:16
(32) Thanks be unto God for his unspeakable gift. II Corinthians 9:15

Page 57

(1) epithelial
(2) connective
(3) skin
(4) integumentary
(5) epidermis
(6) melanin
(7) plasma
(8) mitosis
(9) dermis
(10) reticular
(11) sebaceous
(12) root
(13) shaft
(14) nail matrix
(15) hypodermis
(16) appendicular
(17) axial

Page 58

(18) skeletal
(19) femur
(20) ankle
(21) pectoral
(22) thoracic
(23) pelvic
(24) cranial
(25) mandible
(26) cervical . . . coccyx
(27) sesamoid
(28) Haversian
(29) osteoblasts
(30) diaphysis . . . epiphysis
(31) osteoclasts
(32) cartilage
(33) Ossification
(34) synovial

Page 59

(35) E	(41) G
(36) A	(42) H
(37) F	(43) I
(38) C	(44) D
(39) B	(45) L
(40) K	(46) J

(47) Honour thy father and thy mother, as the LORD thy God hath commanded thee; that thy days may be prolonged Deuteronomy 5:16
(48) Thanks be unto God for his unspeakable gift. II Corinthians 9:15